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s/137/61/000/011/089/123 A060/A101

Taran, Yu. N., Progrebnoy, E. N., Yasskiy, D. I. AUTHORS:

On the crystallization mechanism of cast iron in revolving crystal-TITLE:

lizer rolls

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PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 3-4, abstract 11114

(V sb. "Polucheniye izdeliy iz zhidk. met. s uskoren. kristalliza-

tsiyey". Moscow-Kiyev, Mashgiz, 1961, 197-210)

The authors cite the results of an investigation devoted to the study of the influence of the forming parameters upon the structure and the characteristics of cast iron sheet. The structural base of the cast iron sheet is formed by a ramified lattice of austenite dendrites, ledeburite inclusions are comparatively rarely encountered also in the middle of the sheet. As one recedes from the central zone, the size of the dendrites increases and at the edge portions of the sheet it is possible to observe the formation of large giant crystals with perfect dendrite form. The nucleation and growth of such crystals occurs in a wedge of molten metal without connection with crystallization of the surface films. The completion of their growth occurs in those

Card 1/2

On the crystallization mechanism ...

S/137/61/000/011/089/123 A060/A101

portions of the melt which, in flowing over the roller surface, maintain the contact with that surface for a long time. In the process of growing, the large, little ramified dendrites of austenite deplate the surrounding liquid solution of Fe and in the interdendritic spaces ledeburite inclusions with fine structure are formed. Under high forming pressures, there is formed a nonuniform (over the sheet length) three-layered structure, which has a deleterious effect upon the characteristics of the sheet. It was established that the optimal interval of the roll pressure magnitude is from 60 to 130 kg/running cm of the sheet width. Forming of the sheet in this interval guarantees the sufficiently homogeneous structure and satisfactory mechanical characteristics of the sheet.

A. Savel yeva

[Abstracter's note: Complete translation]

Card 2/2

BY HERBY

CHERNOVOL, A.V. [Chornovol, A.V.]; TARAN, Yu.N. [Taran, IU.M.];

FANCHINA, T.A. [Panchyna, T.U.]

Effect of calcium on the form of graphite inclusions in Fe-C-Si alloys. Dop.AN URSR no.7:911-914 '61. (MIRA 14:3)

1. Institut liteynogo proizvodstva AN USSR i Dnepropetrovskiy metallurgicheskiy institut. Predstavleno akademikom AN USSR V.N.Svechnikovym [Sviechnykov, V.M.].

(Iron-carbon-silicon alloys) (Calcium)

KRIVOSHEYEV, A. Ye.; TARAN, Yu. N.

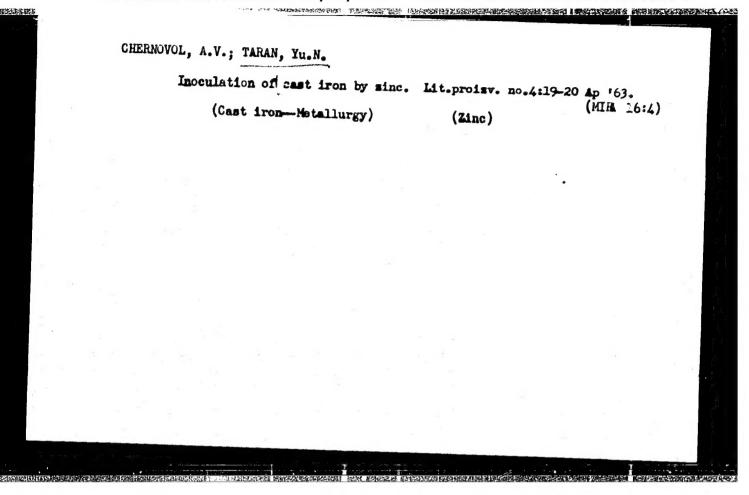
Characteristics of the structure of high-strength two-layer rolls of chromium-nickel cast iron. Izv. vys. ucheb. sav.; chern. met. 5 no.12:131-137 162.

(MIRA 16:1)

THE PERSON AND THE PERSON OF T

1. Dnepropetrovskiy metallurgicheskiy institut.

(Rolls(Iron mills)
(Iron-nickel-chromium alloys-Metallography)



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"Alan, Yu.N.; CHERNOVOL, A.V.

EX HEREIN

Effect of the rate of cast iron cooling on the efficiency of inoculants. Izv. vys. ucheb. zav.; chern. met. 6 no.9:181-184 163. (MIRA 16:11)

1. Dnepropetrovskiy metallurgicheskiy institut.

CHEKMAREV, A.P., adademik; GRUDEV, A.P., kond. tekh.nauk; TARAN, Yu.N., kand. tekhn.nauk; ZIL\*BERG, Yu.V., inzh.; KURILENKO, V.Kh., inzh.; DERGACH, A.Ya., inzh.; LITINSKIY, D.M., inzh.; RUSTERGVA, G.V., inzh. SAMOYLUEKO, V.D., inzh.

Reducing metal sticking on the rolls during the hot rolling of stainless tubes. Stal! 23 no.7:631-635 J1 '63. (MIRA 16:9)

1. AN UkrSSR (for Chekmarev).
(Pipe mills) (Steel, Stainless)

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TARAN, Yu.N. [Taran, IU.M.]; CHERNOVOL, A.V. [Chornovol, A.V.]

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Formation of spherulitic graphite. Dop. AN URSR no.11:1486-1489 64. (MIRA 18:1)

1. Dnepropetrovskiy metallurgicheskiy institut i Institut problem lit'ya AN UkrSSR.

THE PROPERTY OF THE PROPERTY O

KRIVOSHEYEV, A.Ye.; TARAN, Yu.N.

Characteristics of the microstructure of rolls made of nickel-manganese cast iron. Izv. vys. ucheb. zav.; chern. met. 7 no.2:147-152 '64. (MIRA 17:3)

1. Dnepropetrovskiy metallurgicheskiy institut.

TO THE PROPERTY OF THE PROPERT

SUNINA, Yu.X.; TARAN, Yu.N.

Use of polarized light during the microanalysis of alloyed cast from. Asv. 195. 30 no.4:463 \*64. (MIRA 17:4)

1. Dnepropetrovskiy metallurgicheskiy institut.

TARAN, Yu.N. (Dnepropetrovsk); LEV, I.Ye. (Dnepropetrovsk); YATSENKO, A.I. GERASIMCVA, T.I., inzh.; KURASOV, A.N.

Specific features of the eutectic crystallization of cast iron innoculated with cerium. Izv. AN SSSR. Met. no.3:131-139 My-Je '65. (MIRA 18:7)

KRIVOSHEYUV, A.Ye., doktor tekhn.nauk; CARAN, Ye.N., kand.tekhn.nauk; HUUVA, Yu.K., inzh.

Investigating the isothermal decomposition of austenite in white chromium-nickel cast iron. Lit. proizv. no.7:22-24 Jl 165.

(MirA 12:8)

BUNINA, Yu.K.; TARAN, Yu.N.

Kinetics of the isothermal transformations of austenite in white chromium-nickel cast iron. Izv.vys.ucheb.zav.; chern.met. 8 no.6: 151-155 165. (MIRA 18:8)

1. Dnepropetrovskiy metallurgicheskiy institut.

(MIRA 18:7)

KRIVOSHEYEV, A.Ye.; TARAN, YG.N.; KALININA, L.T.; NIKOLAYEV, N.A. Effect of anomalous atructure on the properties of chilled magnesium cast iron. Izv. vys. ucneb. zav.; chern. met. 8 no.7:169-174 165.

1. Dnaprovskiy metallurgicheskiy institut.

BUNIN, K.P.; LEV, I.Ye., kand. tekhn. nauk; SNAGOVSKIY, V.M., inzh.; TARAN, Yu.N., kand. tekhn. nauk

Structure of white chromium cast iron. Lit. proizv. no.9:23-24 S 165. (MIRA 18:10)

1. Chlen-korrespondent AN UkrSSR (for Bunin).

TARAN, Yu.N.; NOVIK, V.I. Exposure of the granular structure of comentite in white cast iron.

1. Institut chernoy metallurgii imeni Bardina.

Zav. lab. 31 no.9:1110-1111 '65.

CIA-RDP86-00513R001754910010-3" APPROVED FOR RELEASE: 07/13/2001

TARAN, Yu.N.; SNAGOVSKIY, V.M.; LEV, I.Ye.

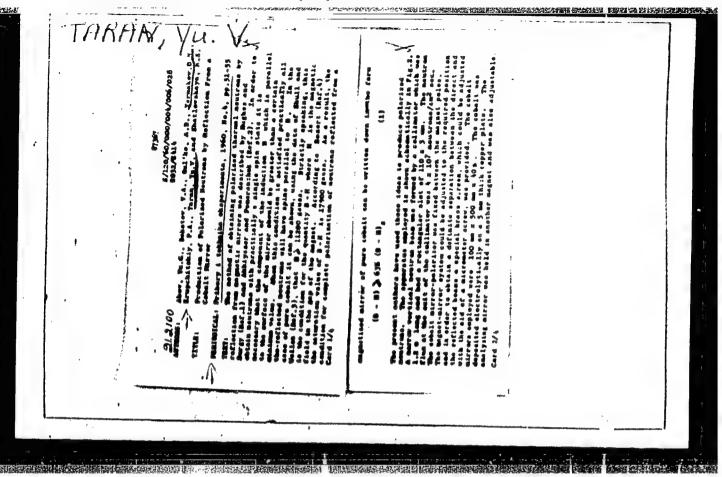
Microscopic division of the carbide phases in Fe - C - Cr alloys. Zav. lab. 31 no.9:1111-1112 '65. (MIRA 18:10)

l. Institut chernoy metallurgii imeni Bardina.

HEV, I.Ye.; BETAY, G.Ye.; TARAN, YU.N.; YATUENKO, A.I.

investigating the distribution of cerium in cast from with the help of an electron probe. Fiz. met. i metalloyed. 20 no.2:236-242 Ag (MIRA 18:9)

1. Dnepropetrovskiy metallurgicheskiy institut i Nauchno-issledovatel - skiy institut chernoy metallurgii, Dnepropetrovsk.



LUSHCHIKOV, V.I.; MANENKOV, A.A.; TAHAN, Yu.V.

[Dynamic polarization of protons in hydrogen peroxides and tertiarv butyl] Dinamicheskaia poliarizatsiia protonov v perekisiakh zodoroda i tretichnogo butila. Dubna, Ob\*edinennyi in-t iadernykh issl., 1961. 7 p. (MIRA 15:1) (Protons) (Hydrogen peroxide) (Butoxy group)

175 /61/003/011/037/056 1 Ce/B138

**10人。中国大型大型,1200年间,1200年** 

AUTHORS:

Lushchikov, V. I., Manenkov, A. A. ina Taran, Yu. V.

TITLE:

Dynamic polarization of protons . . . . rradiated polyethylene

PERIODICAL:

Fizika tverdogo tela, v. 3, no. 11, 1961, 3503-3508

TEXT: The authors investigated possibilities of producing targets with aligned protons. Some experiments with polystaylens are described with reference to work carried out by G. Hwang and T. M. Sanders (Ref. 3, see below). Fig. 1 shows the experimental arrangement by means of which simultaneous observations can be made of nuclear magnetic resonance and electron paramagnetic resonance at helium temperatures, 1.9300-Mops vibrations (H<sub>102</sub>-mode) were excited in the cavity. The amplitude of the primary oscillations were kept at a low (~0.005 v) and constant level by means of an automatic level trimmer. Various types of polyethylene were studied: (1) ΠΒΒΠ1 (PEVP1) - viscosity 3.2 polyethylene were cosity 2.6 poise, (3) ΠΒΗΠ (PENP) - low viscosity. The specimens were bombarded by fast neutrons for 20 hours at 6500. The rise in proton polarization was determined in terms of the dynamic amplification factor η

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Dynamic polarization of protons ...

3/:d1/61/003/011/037/056 5106/8138

which is the ratio of the nuclear magnetic resonance signal in the case of saturation of the electron resonance of the Figurers to the signal without saturation of the F-centers. This factor increased with the molecular weight of the polymer chains. Between 1.6 and rock, 7, was practically independent of temperature. Nuclear spinlattice relaxation time was determined from the drop in the nuclear magret. resonance signal. Both build-up and decay of nuclear magnetic resonance are characterized by two time components, a long one and a short one, which is some 30 % of the long component. This is explained by the extende of two kinds of protons. Protons near the F-centers have a short relaxation time, protons far from the paramagnetic centers have a long relaxation time. The polarization of the second kind is due to spin affusion. F. L. Shapiro, V. A. Milyayev, P. A. Krupchitskiy, and B I Kikerev are thanked for their interest and assistance. There are 5 figures, 1 table, and 5 non-Soviet references. The two most recent references to English-language publications read as follows: G. Hwang, T. M Sanders. Proceedings of the 7-th International Conference on Low Temperature Physics, University of Toronto, p. 98, 1960; O. S. Leifson, C. D. Deffries. Bull. Am. Phys. Soc.,

Card 2/4 3

erromania.

Dynamic polarization of protons...

S/161/61/003/011/037/056 B108/B138

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ASSOCIATION: Fisicheskiy institut im. P. N. Lebedeva AN SSSR Moskva

(Institute of Physics imeni P. N. Lebedev AS USSR Moscow)

SUBMITTED: June 26, 1961

Legend to Fig. 1:  $\Gamma1-900$ -kcps-generator,  $\Gamma2$  - nuclear magnetic resonance generator,  $\Gamma3-3\Gamma-12$  (ZG-12) audio-frequency oscillator,  $\gamma1-hf$ -amplifier,  $\gamma2-lf$ -amplifier,  $\gamma3-860$ -ops resonance amplifier,  $\gamma4$  - automatic frequency control amplifier,  $\Omega$  - detector, C3 - synchronous detector, C3 - crystal detector, C4 - klystron supply, saturation clystron, C4 - attenuator, C4 - matched load, C4 - ferrite rotor, C4 - helium cryostat, C4 - nitrogen Dewar, C4 - coaxial cable, C4 - resonator cavity, C4 - modulator coils, C4 - water-cooled magnet, C4 - oscilloscope, C4 - C4 -

Card 3/4/ 3

GUL'KO, A.D.; TARAN, Yu.V.

Production and use of polarized resonance neutrons. Atom.energ. 10 no.5:506-508 My '61. (Neutrons)

(Neutrons)

8/161/63/005/001/036/064 B108/B180

AUTHORS :

. 11 2000

Lushchikov, V. I., Manenkov, A. A., and Taran, Yu. Y.

TITLE:

Dynamic polarization of protons in lanthanum-magnesium binary nitrate

PERIODICAL: Pizika tverdogo tela, v. 5, no. 1, 1963, 233 - 236

TEXT: Earlier work on the dynamic polarization of protons (PTT, 3, 3503, 1961) is continued here. (La,Ce)2Mg3(NO3)12.24H2O single crystals were grown from a saturated La2Mg3(NO3)12 solution with an appropriate addition of Ce2Mg3(NO3)12. The sample was placed in a resonator so that the hexagonal crystal axis was always perpendicular to H the external wagnetic field. In this position,  $g_1 = 1.83$  for the  $Ce^{3+}$  ion. The increase in the polarization of the protons in the crystal on saturation of the epr was determined from the increased amplitude of the nar signal from the proton. With fixed epr frequency typical polarization peaks were observed at  $H_0 + \frac{\Delta H}{2}$ , which corresponds to the forbidden transition at the frequency Card 1/2

Dynamic polarization of ...

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exc nucl. The greatest increase in polarization was found at 1.60K in a field of 3700 oe for a crystal with 0.5% Ce. In this case, the proton polarization was 170 times greater than in thermal equilibrium. This decreases somewhat when the temperature falls to 1.50K. Measurements of the coefficient of dynamical increase in polarization in dependence on the power of epr saturation showed good agreement with the simple phenomenological theory of spin diffusion (0. S. Leifson, C. D. Jeffries. Bull. Am. Phys. Soc., 6, no. 3, 1960; Phys. Rev., 122, 1781, 1961). The same applies to the nuclear spin-lattice relaxation time in dependence on the Ce2+ concentration in the range 0.2 - 1% (at constant temperatures between 1.5 and 1.70K). Between 1.5 and 1.70K, the relaxation time is proportional T-4+1 at any Ce3+ concentration. There are 3 figures. and 1 table.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR, Moskva (Physics Institute imeni P. N. Lebedev AS USSR, Mosco\*)

SUBMITTED: August 6, 1962

Card 2/2

8/181/63/005/002/009/051 B104/B186

AUTHORS:

Kessenikh, A. V., Lushchikov, V. I., Manenkov, A. A., and

Taran, Yu. V.

TITLE:

Proton polarization in irradiated polythene

PERIODICAL: Pisika tverdogo tela, v. 5, no. 2, 1963, 445 - 454

TEXT: The aim is to find materials suitable for polarised proton targets, and to investigate the physical properties of irradiated polythene. To this end the studies of dynamic polarisation in high-density polythene irradiated with fast protons (V. I. Lushchikov, A. A. Manenkov, Yu. V. Taran, FFT, 3, 3503, 1961) were continued. The dynamic nuclear polarisation was measured at 77, 4.2 and 1.60K in a magnetic field of ~3400 oe using a device described in a previous paper. The 17,9.6 mm test pieces were placed in the coil of an autodyne n.m.r pickup, with the axis of the coil perpendicular to the long side of the resonator. H<sub>102</sub> oscillations with a frequency of 9440 Mc/s were set up in the resonator. The dynamic polarisation factor of the n.m.r. signal at saturated e.p.r. of the free radicals formed when the Card 1/3

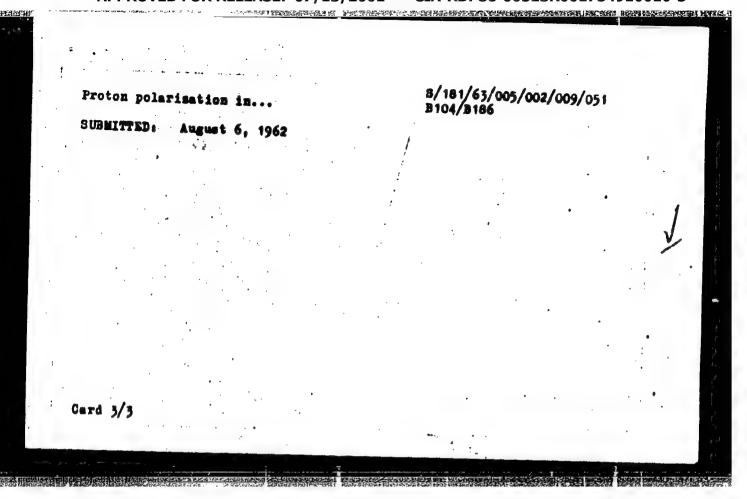
Proton polarization in ...

S/181/63/005/002/009/051 B104/B186

polythene was irradiated. Results: In the He temperature range, the cross-relaxation under conditions of non-uniform e.p.r. line broadening plays an important part in the dynamic polarization of the nuclei. This can be used to explain the increase in the broadening of the dynamic nuclear polarization maxima as the temperature decreases, and the fact that the dynamic polarization factor does not depend on temperature. The time dependence of the n.m.r. lines is described as the sum of two exponents with relaxation times of T<sub>1</sub> and T<sub>2</sub>. The nuclear relaxation depends linearly on T<sub>1</sub> and T<sub>2</sub>, this result being contrary to theoretical predictions (0. S. Leifson, C. D. Jeffries, Phys. Rev., 122, 1781, 1961). It is explained on the assumption that the action sone of the paramagnetic centers is equalized at the expense of fast spin diffusion. The dynamic polarization coefficient depends linearly on the molecular weight of the initial material. There are 6 figures.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSB (Physics Institute imeni P. N. Lebedev AS USSR); Nauchno-issledovatelakiy fiziko-khimicheskiy institut im. L. Ya. Karpova, Moskva. (Scientifia Physicochemical Research Institute imeni L. Ya. Karmov, Moscow)

Card 2/3



L 17999-63 RM/WW/MAY

EWP(j)/EPF(c)/EWT(m)/BDS

AFFTC/ASD Pc-li/Pr-li

ACCESSION NR: AP3001284

s/0181/63/005/006/1640/1642 7

AUTHORS: Kessenikh, A. V.; Lushchikov, V. I.; Manenkov, A. A.; Taran, Yu. V. 68

TITLE: Relaxation and dynamic polarization of protons in polyethylenes

SOURCE: Fizika tverdogo tela, v. 5, no. 6, 1963, 1640-1642

TOPIC TAGS: proton, dynamic polarization, spin diffusion, nuclear magnetic resonance, polyethylene, molecular weight, ultra-high frequency

ABSTRACT: The authors started with data from V. I. Lushchikov, A. A. Manenkov, and Yu. V. Taran (FTT, 3, 3503, 1961) and A. V. Kessenikh, V. I. Lushchikov, A. A. Manenkov, and Yu. V. Taran (FTT, 4, 433, 1963) concerning the dependence of dynamic polarization in polyethylenes on the average molecular weight. They expected the coefficient of dynamic polarization to be about 60 when the molecular weight was 2.3 x 10°. To test this view and to refine the results of the cited papers, they made this study on several samples of polyethylene bombarded by fast neutrons. Weasurements were made on a setup described in the first of the above papers, at 77, 4.2, and 1.6K. These experiments have shown that within the limits of experimental accuracy the resolution of dynamic polarization at ultra-high-frequency output and restoration of nuclear polarization after removal of nuclear-

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magnetic-resonance saturation are described by exponents with identical value of the time of nuclear relaxation. This indicates that the theory of spin diffusion (G. R. Khutsishvili (ZhETF, 42, 1311, 1962)) is equally applicable to dynamic polarization. The measured values of dynamic polarization proved to be smaller than expected and the authors ascribe the difficulty of demonstrating dependence of this property on molecular weight to peculiarities in the technology of preparing the samples. "In conclusion the authors thank B. I. Kokorev for his aid in the work and they thank V. L. Karpov, Doctor of Chemical Sciences, for a number of interesting discussions. They also take this opportunity to express their thanks to T. I. Terekhov and Yu. P. Vy\*tskiy for determining the molecular weight of one sample and N. A. Slovokhotov for studying the infrared spectrum of the same sample." Orig. art. has: I table.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova, Moscow (Physical and Chemical Institute)

SUBMITTED: 21Jan63

DATE ACQ: 01Jul63

ENCL: 00

SUB CODE: PH, MA

NO REF SOV: 003

OTHER: 001

Card 2/2

TARAN, Yu. V.

Dealin of a neutron spin rotator. Atom. energ. 15 no.5141 4.44 7 (MIRA 16:12)

L 13849-63 ENT(m)/BDS AFFTC/ASD

ACCESSION NR: AP3003158

8/0056/63/044/006/2185/2187

50

AUTHOR: Taran, Yu. V.; Shapiro, F. L.

TITLE: Some methods for polarization and analysis of polarization of intermediate energy neutrons

SCURCE: Zhurnal eksper. i teor. fiziki, v. 44, no. 6, 1963, 2185-2187

TOPIC TAGS: medium energy neutrons, polarization, analysis of polarization, compound nucleus spin

ABSTRACT: Some possibilities are discussed for the polarization and analysis of polarization of neutrons with resonant energies and higher, based on the spin dependence of the nuclear interactions. It is shown that a promising method is to use polarized He sup 3 as an analyzer of neutron polarization. The possible use of a polarization analyzer to measure the depolarization on resonance scattering of neutrons in an unpolarized target. The energies at which these methods can be used are discussed. The strong dependence of the depolarization of the neutrons on the spin of the compound nucleus makes it also possible to determine this spin with sufficient accuracy by measuring the polarization of the scattered neutrons. "In conclusion, the authors take

Card 1/2

L 138h9-63
ACCESSION NR: AP3003158

this opportunity to thank V. N. Yefimov for valuable discussions." Orig. art. has: 5 formulas and 1 table.

ASSOCIATION: Ob'yedinemny's institut yaderny'kh isaledovaniy (Joint Institute of Nuclear Research)

SUEMITTED: O2Apr63

DATE ACQ: 23Jul63

ENCL: OO

SUB CODE: OO

NO REP SOV: OO2

OTHER: O22

ACCESSION NR: AP3005305

S/0056/63/045/002/0394/0396

AUTHOR: Neganov, B. S.; Parfenov, L. B.; Lushchikov, V. I.; Taran, Yu. V.

TITIE: Dynamic proton polarization at 0.5%

24

SCURCE: Zhur. eksper. i teoret. fiz., v. 45, no. 2, 1963, 394-396

TOPIC TAGS: dynamic proton polarization, proton spin lattice relaxation, electron proton resonance, lanthamum double nitrate, cerium impurity

ABSTRACT: Results are reported of preliminary experiments on dynamic proton polarization (DPP) in crystals of La<sub>2</sub>kg<sub>3</sub>(NO<sub>3</sub>)<sub>12</sub>.24H<sub>2</sub>O with paramagnetic cerium concentration of 0.8% (relative to the lanthamum) at approximately 0.5%; the experiments were intended to increase the polarization and check the dependence of the proton polarization amplification coefficient on the external magnetic field at fixed electron proton resonance (EPR) frequency, the dependence of the amplification coefficient on the microwave power used to saturate the EPR, and the temperature dependence of the proton spin-lattice relaxation time. The maximum positive value of the amplification coefficient was 129 ± 10, corresponding in a field of 3500 Oe to a proton polarization 8 ± 0.5%. It was found that lm3 of microwave power

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ACCESSION NR: AP3005305

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was sufficient to obtain the maximum amplification coefficient (with resonator of approximately 1000). The proton spin-lattice relaxation has a time dependence in the form  $T_{ln}^{-1} \sim T^{1.65\pm0.15}$  with  $T_{ln} = 920 \pm 80$  sec at  $T = 0.32 \pm 0.03^{\circ}$ K.

It is therefore concluded that at temperatures below 1°K no reduction occurs in the amplification coefficient when the temperature of the sample is substantially decreased. The use of higher magnetic fields should yield proton polarizations near 100%. "In conclusion, the authors take this opportunity to thank Prof. F. L. Shapiro for his great interest and attention to this work."

ASSOCIATION: Objectinenny institut yaderny kh issledovaniy (Joint Institute of Nuclear Research)

SUBULTED: 01 Jun 63

DATE ACQ: 06Sep63.

ENCL: 00

SUB CODE: PH

NO REF 30V: 002

OTHER: 003

Card : 2/2

L 00757-66 ENT(1)/ENT(m)/T/ENP(t)/ENP(b) IJP(c) JD/JG/GG ACCESSION NR: AP5014197 UR/0386/65/001/002/0021/0027 14,55 AUTHOR: Lushchikov, V. I.; Taran, Yu. V.; Frank, A. I. 44.55 TITLE: Dynamic polarization of deutrons in a lanthanum-magnesium nitrate crystal SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 1, no. 2, 1965, 21-27 TOPIC TAGS: deutron polarization, single crystal, deuterium, heavy water, lantha-ABSTRACT: An attempt was made to polarize deuterium nuclei by the dynamic method. The specimen was a single crystal of binary lanthanum-magnesium nitrate La<sub>2</sub>Mg<sub>3</sub>(NO<sub>3</sub>)<sub>12</sub>·24(H<sub>2</sub>O + D<sub>2</sub>O) with a 1% Nd<sup>142</sup> impurity. Part of the ordinary water of crystallization in this crystal has been replaced by heavy water. Mass spectroscopic analysis showed a deuterium content in the crystal of 42%. It was found that polarization in excess of 10% is possible in a magnetic field of 20,000 oersteds at a temperature of 1°K, which is much greater than the 1.2% polarization attainable in solid deuterium. Orig. art. has: 2 figures, 1 formula. ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)
SUBMITTED: 03Mar65 ENCL: 00 NO REF SOV: SUB CODE: OTHER: 010

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910010-3"

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EWT(1)/EWT(m)/ETC/EWG(m)/T/EWP(t)/EWP(b)/EWA(m)-2 L 5331-66 IJP(c) RDW/JD/GG ACCESSION NR: AP5021099 UR/0056/65/049/002/0406/0409 AUTHOR: Lushchikov, V. I.; Neganov, B. S.; Parfenov, Dynamic polarization of protons in a rotating lanthamum-magnesium nitrate crystal SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 2, 1965, 50 406-409 , lanthanum compound, spin relaxation TOPIC TAGS: proton polarization. ABSTRACT: A new method of polarizing nuclei in anisotropic crystals is proposed, consisting of rotating the crystals in a stationary magnetic field and a weak radio frequency field. The method is based on the theoretical predictions of A. Abragam (Cryogenics v. 3, 42, 1963) and C. D. Jeffries (Cryogenics v. 3, 41, 1963), wherein the spin temperature is rapidly decreased via spin-spin relaxation accompanied by rapid cooling of the system. The authors verified this method with single crystal (IA, Ce)2Mg3(NO3)12.24H2O, and obtained an appreciable increase in polarization. The experiments were made in fields from 2 to 6 kOe at saturation frequencies from 60 to 170 Mc with the crystal rotating uniformly at 30--600 rpm. The experiments were made at 1.3K. Amplification coefficients up to ~70 were obtained. The ampli-Card 1/2

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ACCESSION NR: AP5021099			and the same and a same as a s		4
fication coefficient increasing speed. Only postare much less stringent muse of radio frequencies art. has: 3 figures and 2	Agnetic-field uni in the meter rand	on was obtain	ned. Advantag	es of the metho	
ASSOCIATION: Ob"yedinnenn Nuclear Research)		rnykh isaled	dovaniy (Joint	Institute of	
SUBMITTED: 03Mar65	ENCL: OC	)	SUB CODE:	NP, 88	
NR REF SOV: 000	OTHER: 00	4			
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LEV, Isaak Yefimovich; TAMAN-ZHOVNIR, Yu.N., otv. red.; LIBERMAN, S.S., ved. red.; ANDREYEV, S.P., tekhn. red.

[Carbide analysis of cast iron] Karbidnyi analiz chuguma. Khar'kov, Metallurgizat. 1962. 180 p. (MIRA 15:7)

(Cast iron-Metallography)

(Phase rule and equilibrium)

RUNAMIN/General Biology. Cytology. Plant Cytology. B-2

Abs Jou : Ref Zhu: -Biol., No 13, 1958, 71526

Author : Taranavschi, Ton T.; Mitroiu, Natalia;
Inst : C. T. Parhon University.

Inst

C. I. Parhon University

Cytological Research of Intergeneric Sexual
Hybrids, Neo-Acgilotriticum, Neo-Secolotriticum and WheatzWheatgrass, As Well As Parental
Forms.

Orig Pub: An. Univ. "C. I. Parhon". Ser. stiint. natur., 1957, No 14, 129-140

Abstract: The hybrids of Neo-Acgilotriticum [Triticum vulgare Vill. x T. durum Desf. (2n = 36) x Acgilops ovata (2n = 23)] possess 2n = 42.

During meiosis, abnormalities are observed, which are characteristic for hybrids; however,

Card : 1/2

RUMANIA/General Biology. Cytology. Plant Cytology. B-2
Abs Jour: Ref Zhur-Biol., No 16, 1950, 71526

pollen mother cells are observed in which meiosis proceeds normally, which reflects restoration of the cystological equilibrium.

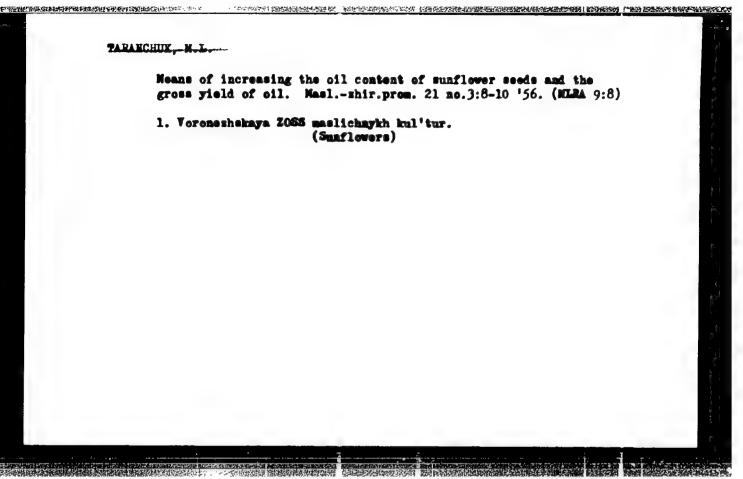
Neo-Secolotriticum is a prolific amphidiploid (2n = 56) which developed from cross breeding.

T. vulgare (n = 21) with Secale coreals (n = 26) and of subsequent doubling of the chromosome in F1. The hybrid T. durum var. melanobus and Hordeiforme x Agropyron repens and intermedium ssp. glaucum, which is promising for future selection, possesses in F1 2n = 42, by the appearance of amphidiploid gametes which also investigated.

Card : 2/2

KAL'MANOVICH, M.A., inzh.; TARANCHEV, V.V., inzh.

Experience in adjusting and operating high-frequency protection channels on a 400 kv. power transmission lime. Trudy VNIIE no.7:226-243 \* 158. (MIRA 16:12)



TARANCHUK, M.V., polkovnik, kandidat filosofskikh nauk; LYALIKOV, B.S., polkovnik redaktor; SOLOMONIK, P.L., tekhnicheskiy redaktor

[Factors bearing constantly on the outcome of war] Postoianno deistwuiushchie faktory, reshsiushchie sud bu voiny. Isd. 2-oe, dop. Moskva, Voen. ixd-vo Ministerstva obor. SSSR, 1954. 133 p. [Microfilm] (MIRA 10:4)

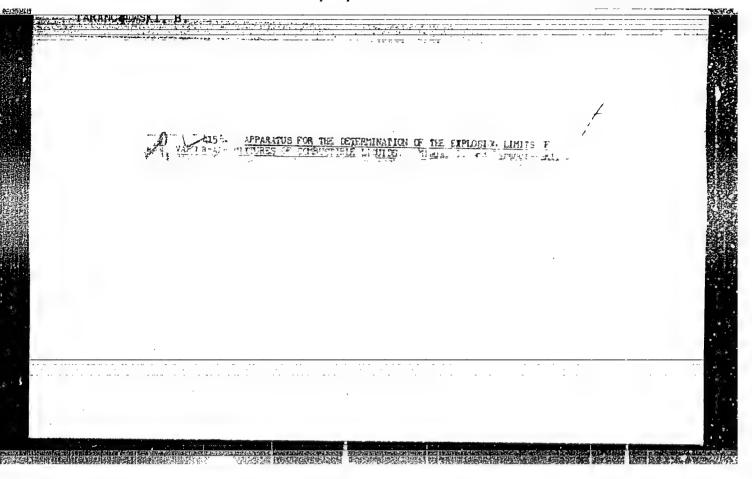
(Military art and science)

TARANCHUK, N., elektromekhanik

Electric cranes on ships of the "Ugleural'sk" type. Mor.flot
21 no.1:30-33 Ja '61.

1. Teplokhod "Urgench."

(Electric cranes) (Ships--Equipment and supplies)



USSR/Soil Science. Mineral Fertilizers.

J-3

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24743.

Author : Tarandi, K.

Inst Title

: The Phosphorus Fertilizers Requirement of the Soils

of Norther Estonia.

Orig Pub: Sotsialistlik pollumajandus, 1957, No 4, 147-149.

Abstract: No abstract.

Card : 1/1

19

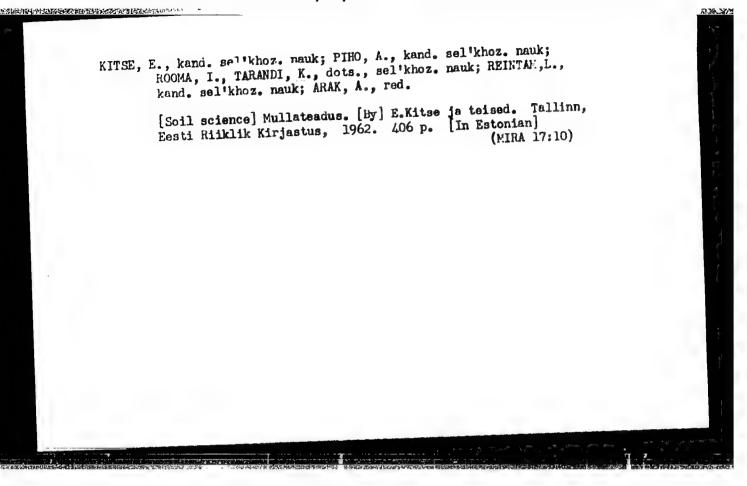
TARANDI, K. T.

TARANDI, K. T.: "On the content of easily soluble compounds of plos-

phorus and potassium on the arable layer of field soils of the 3-

tonian SSR." Estonian Agricultural Academy. Tartu, 1956.
(Dissertation for the Degree of Candidate in Agricultural Sciences)

Source: Knizhnaya letopis! No. 28 1956 Moscow



(18.5200); 2208; 2308; 2508

83551 **9/135/60/000/009/**010/015 A006/A002

AUTHORS:

Kipnis, I. S., Shklovskiy, S. M., Tarandushko, Ye. A., Engineers

TITLE:

Semi-Automatic and Automatic Plasma Cutting of Aluminum Alloys and

Stainless Steel

PERIODICAL: Svarochnoye proisvodstvo, 1960, No. 9, pp. 31-32

Air-arc cutting or drilling-out of parts at a Soviet plant were replaced by mechanized cutting using the NMET-105 (IMET-105) plasma torch," designed by the Institut metallurgii imeni A. A. Baykova AN SSSR (Institute of Metallurgy imeni A. A. Baykov, AS USSR). Optimum cutting conditions were set up using a specially modified semi-automatic gas-cutting machine (Fig. 1). As the IMET-105 torch heated up very rapidly during the tests its design was modified as follows: the tungsten electrode holder rod was made of copper to ensure a better elimination of the heat; the contact surface of the welding cable connection with the tungsten electrode rod was enlarged; the welding cables of 50 mm<sup>2</sup> cross section were replaced by cables of 70 mm<sup>2</sup>. After the aforementioned improvements had been brought about, the torch operation was stable without excessive heating of the current conducting parts. Optimum cutting speeds

Card 1/2

83551 S/135/60/000/009/010/015 A006/A002

Semi-Automatic and Automatic Plasma Cutting of Aluminum Alloys and Stainless Steel

obtained as a result of the tests are given in Table 1 and the quality of cuts produced at these speeds is shown in Table 2. Simultaneously, the authors investigated the effect of the plasma jet heat on the structure of the metal to be cut. It was established that plasma cutting caused only slight changes in the structure of the metal in the zone of cutting and did not affect the strength of the weld. As the semi-automatic machine cannot be used for cutting parts of complicated configurations, as gas cutting machine of the coordinate type was modified (Fig. 3). The cutting of parts was performed using master form plates. The modified machine was brought into use. The introduction of plasma cutting at the plant reduced labor consuming operations and metal consumption although the economical effect was diminished by the use of expensive argon. It is recommended to design a plasma torch operating on a cheaper gas, as e. g. nitrogen. There are 2 tables and 3 figures.

Card 2/2

TARANENKO, 1. D.

TO A STATE OF THE PARTY OF THE

2. USSR (600)

Calculating changes in linear dimensions and lumber volume due to moisture. Der. i lesokhim. prom. 1 no. 7 1952

1953. Unclassified. June 9. Monthly List of Russian Accessions, Library of Congress

CIA-RDP86-00513R001754910010-3" APPROVED FOR RELEASE: 07/13/2001

- Taranenko, A.D.
- 2, USSR (600)
- Hygrometry
- Simplified psychrometer for distant measurements. Les. prom. 12 no.12, 1952.

Monthly List of Russian Accessions. Library of Congress, March 1953, Unclassified.

TARAMNIO, A.D., kundidat tekhnicheskikh nauk.

The mechanics of swelling and shrinkage in wood. Der.prem.5
ne.7:12-14 J1 '56.

1.Giprolesprom.

(Lumber--Drying)

TARAMETRO, A.

What is the cause of the shrinking an! swelling of wood and how does it occur?

p. 22 (FATPAR) Vol. 7, No. 1, Apr., 1957

SO: Monthly Index of Fast European Acessions (AEEI) Vol. 6, No. 11 November 1957

### "APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754910010-3

KRECHETOV, Ivan Vasil'yevich; TARANENKO, A.D., red.; SEDOVA, Z.D., red. izd-va; VDOVINA, V.N., tekhn, red.

[Use of flue gases for wood drying] Sushka drevesiny topoch-nymi gazami. Moskva, Goslesbumizdat, 1961. 269 p. (MIRA 15:3)

(Lumber—Drying)

TARANENKO, A.D., kand.tekhn.nauk

Autoclave-type drying chamber for lumber. Der. prom. 10
no.7:4-6 Jl '61.

1. Giprolesprom.

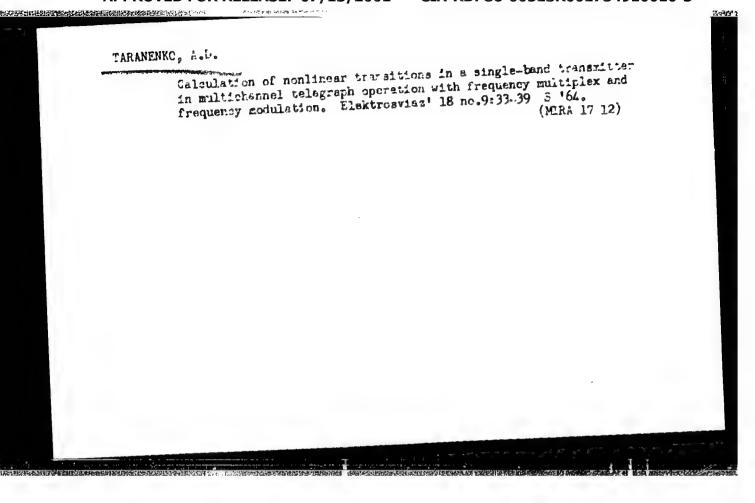
(Lumber-Drying)

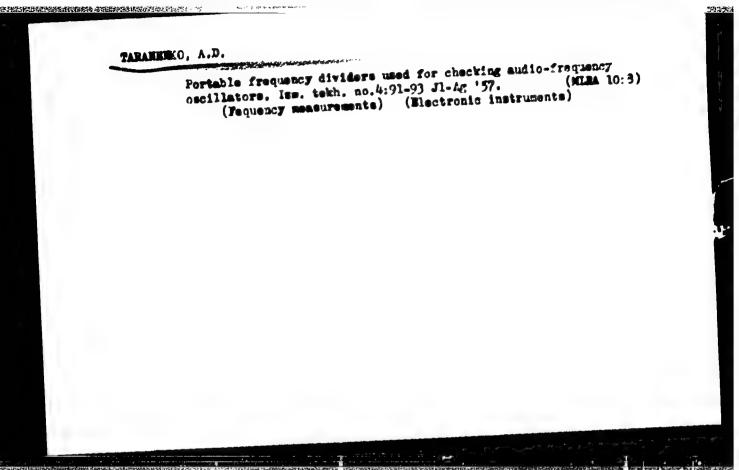
TARANENKO, A.D., kand.tekhn.nauk

High-capacity lumber dryer. Der. prom. 11 no.9:19-20 S '62.

(MIRA 17:2)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy derevoobrabatyvayushchey promyshlennosti.





CIA-RDP86-00513R001754910010-3" APPROVED FOR RELEASE: 07/13/2001

9(2), 28(2) AUTHOR:

Taranenko, A.D.

THE PROPERTY OF THE PROPERTY O

SOV/115-59-9-23/37

TITLE:

A Portable Device for Checking Tube Voltme\*ers

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 9, p 43 (USSR)

ABSTRACT:

At the Kuybyshevskaya gosudarstvennaya kontrolinaya laboratoriya (Kuybyshev State Control Laboratory), a compact device was developed for testing tube voltmeters on power frequency. This device consists basineters on power frequency. This device consists basineters of 9,000, 900, 90 and 10 ohms which form resistors of 9,000, 900, 90 and 10 ohms which form a voltage divider with the factors 10, 100 and 1,000. The device is to be used with reference voltmeters ASTV and AMV, whereby an additional 1 kiloohm resistor is used for the latter. The resistors have been certified for an accuracy of ± 0.02%. Auxiliary tables of the permissible errors of tube voltmeters VKS-7, VLU-2, LV-9, MVL-1, MVL-2 with the voltage division factors 10, 100 and 1,000 are attached to the instructions 210-54 of the Komitet standartor, mer i izmeritel nykh priborov (Committee of Standards,

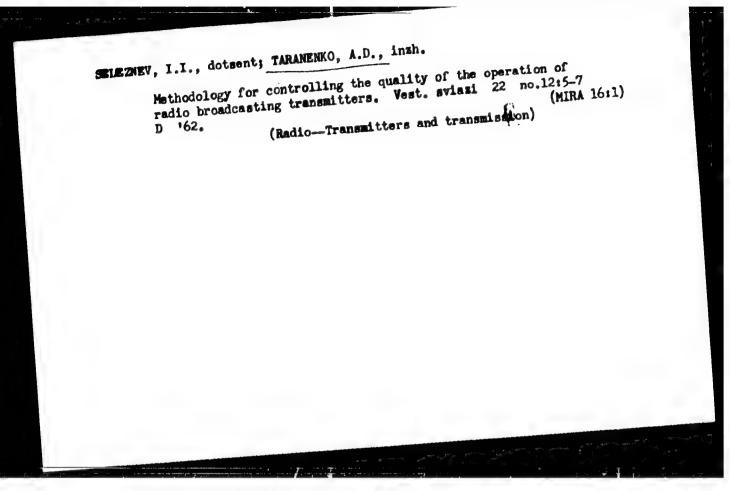
Card 1/2

A Portable Device for Checking Tube Voltmeters SOV/115-79-9-23/37.

Measures and Measuring Instruments), 1950 edition.

There is 1 diagram.

Card 2/2



8/106/63/000/001/002/007 A055/A126

6.4500 6.4800 AUTHORS:

Seleznev, I.I., Safin, M.S., Taranenko, A.D.

TITLE

Method and apparatus for measuring the power of spurious radiation

from short-wave transmitters

PERIODICAL:

Elektrosvyaz', no. 1, 1963, 13 - 16

TEXT:

The new method described in this article is based on the formulae:

 $p = \frac{U_{\text{max}} U_{\text{min}}}{W_{\text{m}}} ,$ (1)

p = I max Imin Wf.

(2)

where p is the measured power passing through the feeder, We is the wave-impedance of the feeder, and Umax, Umin, Imax and Imin are, respectively, the voltages and currents in antinodal and nodal points of the line. The quantities of max and Cumin (deviations of the pointer) determined by the expressions (4)

 $I_{max} = C_{2_1} \alpha_{max}^n$ ,  $I_{min} = C_2 \alpha_{min}^n$ ,

Card 1/3

8/106/63/000/001/002/007 A055/A126

Method and apparatus for measuring the power of ....

where  $C_2$  is a proportionality coefficient, are measured in the method, and the spurious radiation power is calculated with the aid of formula:  $P = B_2 W_f \alpha_{max}'' \alpha_{min}''$ (6)

B<sub>2</sub> (B<sub>2</sub> = C<sub>2</sub>) and W<sub>f</sub> being known. The measuring apparatus (Pig. 1) contains a single wire-loop 1 (75 mm in diameter) placed in an electrostatic shield. The distance between loop and feeder 1s 250 mm. The selective properties of the loop are used for separate measurement of antiphase and cophase wave power. The emfinduced in the loop is applied, through the symmetrical h-f cable 2 and the active matching four-pole 3, to the h-f filter 4, which is a type "mk" iterative filter serving to suppress the fundamental frequency voltage. (The circuit diagram and the frequency response of the filter are reproduced in the article.) gram and the frequency response of the filter are reproduced in the article.) The voltage is next applied, through the balancing h-f transformer 5, to the frequency-selective microvoltmeter 6, which contains a sensitive receiver with calibrated amplification. The devices 3, 4, 5 and 6 are placed inside a grounded iron housing. The values of Gimax and Gimin are read on the scale of the microvoltmeter tuned to a determined harmonic-component frequency. In an experimental apparatus, the range of the harmonic-component frequencies was 30 to 140 Mo/s (adequate alterations permit reducing it to 3 Mc/s); the limits of the measured powerule alterations permit reducing it to 3 Mc/s); the limits of the measured powerule alterations are sensitive receiver with calibrations are read on the scale of the microvoltmeter tuned to a determined harmonic-component frequencies was 30 to 140 Mo/s (adequate alterations permit reducing it to 3 Mc/s); the limits of the measured powerule sensitive receiver.

Card 2/3

Method and apparatus for measuring the power of .... A055/A126

er were 1 \( \mu \text{w} \) and 50 w; the measurement precision was not less than \( \frac{125}{6} \). The determination of the proportionality coefficient B2 is briefly described on a practical example at the end of the article. There are 4 figures.

SUBMITTED: Pebruary 5, 1962

Figure 1: 1 - transmitter
2 - feeder
3 - antenna

TARAHENKO, A. F. Cand. Med. Sci.

Dissertation: "Comparative Pathologico-Histological Data on Guinea Pig Typhus
Caused by Intercerebral Injection of the Virus, Rickettsia Prowazekii." Central
Caused by Intercerebral Injection of Physicians. 10 Jun 47.

Inst. for Advanced Training of Physicians. 10 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17336)

MASHKOV, A.V.; TARAHEHKO, A.F.

Studies on pathogenesis of tuleremia in experimental animals.

Report No.3: Dynamics of multiplication of the causative agent and development of morphological changes in organs of white mice following subcutaneous administration of Pasteurella tulerensis. Zhur. mikrobiol.epid. i immun. 28 no.8:122-125 Ag 157. (MIRA 11:2)

1. Is Moskovskogo instituts vaktsin suborotok imeni Mechnikovs.

(TULAREMIA, experiments).

multiplication of pathogens & morphol. changes after subcutaneous admin. of cultures (Rus))

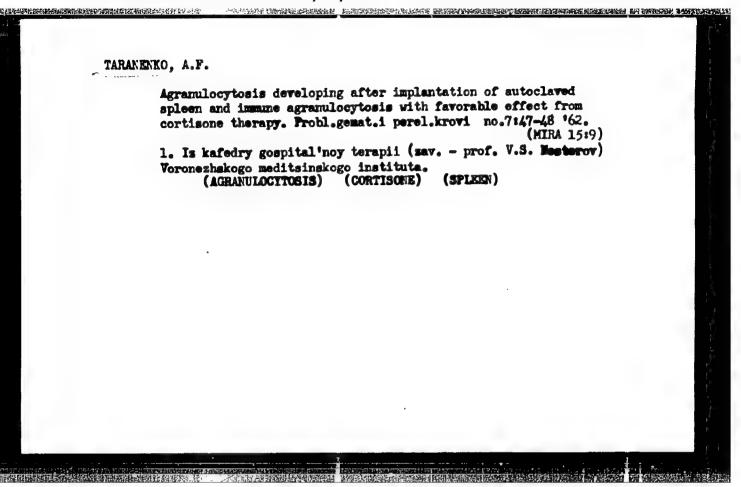
# Case of agraunlocytosis fillowing butadione therapy of rheunatic heart disease. Probl. gemat. i perel. krovi 4 no.5:48-50 My '59. (MINA 12:7) 1. Iz kafedry gospital noy terapii (zav. - prof. V.S. Nesterov) Voronezhskogo meditsinskogo instituta. (RHEUNATIG HEART DISEASE, ther. phenlbutasone causing agranulocytosia (Rus)) (AOHANULOCYTOSIS, etiol. & pathogen. phenylbutazone ther. of rheum. heart dis. (Rus)) (PHENYLEUTAZONE, inj. eff. agranulocytosis in ther. of rheum. heart dis. (Rus))

VORONKOVA, O.I.; NAUMOVA, A.A.; TARANENKO, A.F.; YUDIN. Yu.G.

Morphological changes in the chorion-allantoid membrane of chick embryos in blood cultures from leukemia patients.

Vop. klin. pat. no.2:263-271 \*61 (MIRA 16:12)

1. Iz nauchno-eksperimental nogo otdela (zav. - doktor med. nauk O.I. Voronkova) i patologoanatomicheskogo otdela (zav. prof. S.B. Vaynberg [deceased]) Moskovskogo oblastnogo nauchno issledovatel skogo klinicheskogo instituta imeni Vladimirskogo.



BURMISTROV, S.I.; TARANENNO, A.G.

Quinonemonoxime bisulfates. Ukr. khim. shur. 22 no.5:620-622 '56.
(NIRA 10:6)

1. Dhepropetrovskiy khimiko-tekhnologicheskiy institut.
(Quinone)

TARANENKO, A. G. Cand Biol Sci -- (diss) "Secretory motor function of the empty stomachs of horses in cases of varying compositions of fodder rations."

Len, 1957. 19 pp (Min of Agr USSR. Len Vet Inst), 130 copies (KL, 3-58, 96)

-21-

UKAR / Human and Animal Physiology. Digostion, Stomach.

 $\mathbf{T}$ 

Abs Jour

: Rof Zhur - Biol., No 15, 1958, No. 70260

Author

: Taranonko, A. G.

Inst

: Ioningrad Votorinary Institute

Title

: The Secretory-Leter Functions of the Empty Stomach

of the Herse Following Feeding with Rations of Different

Compositions

Orig Fub

: Avtorof. dis. kand. biol. n., Loningr. Vot. In-t,

Loningrad, 1957

Abstract

: No abstract given

Cord 1/1

80

KONDRATENKO, A.B.; TARANENKO, A.G.; MILYAYEVA, P.K.; SEREDKINA, Ye.P.

Change in the ethyl fraction sup; ly network to the ethyl benzene department. Prom. energe. 16 no.2:16 F '61. (MIRA 14:3) (Benzene)

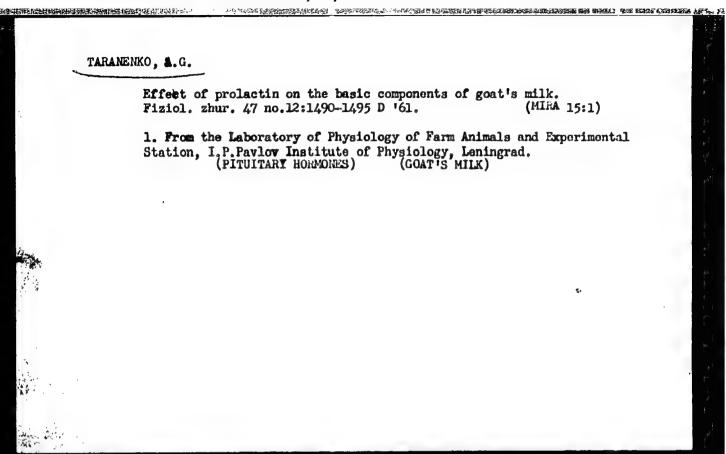
# TARANENKO, A.G.

Effect of mammary denervation on the amino composition of goat milk casein. Fiziol. zhur. 47 no.4:454-458 Ap \*61. (MIRA 14:6)

1. From the Laboratory of Farm Animal Physiology and the Scientific Experimental Station, Institute of Physiology, U.S.S.R.

(UDDER\_INNERVATION) (AMINO ACIDS)

(CASEIN)



THE WINDS SERVICE CONTROL OF THE PROPERTY AND REPORTED BOOK REPORTS AND THE PROPERTY OF THE PR

TARANENKO, A.G.

Influence of the thyroid gland on the amount of casein in milk and on its amino acid composition. Fizicl.zhur. 48 no.6:742-747 Je '62.

(MIPA 15:8)

1. Laboratoriya fiziologii sel'skokhozyaystvennykh zhivotnykh i Nauchno-opytnaya stantsiya Instituta fiziologii imeni I.P.Pavlova AN SSSR, Leningrad.

(THYRROID GLAND) (MILK-COMPOSITION) (CASEIN)

TARABSHRO, A.G.

Effect of chronic atimulation of the affectat nerves of the mannary cland on the synthesis of milk proteins in poatr.

Fiziol.zhur. 51 no.3:350-356 Mr '65. (NIR: 18:5)

1. Laboratorlya fiziologij i biokhimit laktatsij incultum fiziologii imeni favlova AN COSR, Leningrad.

DANILENKO, S.I., kand. med. nauk; TARANENKO, A.M.

Be careful in working with poisonous chemicals. Zashca. rast. ot vred. i bol. 9 no.5:32-33 '64. (MIRA 17:6)

1. Doverennyy vrach TSentral'nogo komiteta professional'nogo soyuza rabochikh i sluzhashchikh sel'skogo khozyaystva i zagotovok.

ACCESSION NR: AP4034714

8/0064/64/000/004/0272/0272

AUTHOR: Taranenko, A. S.; Belousova, G. A.

TITIE: Improvement in the technology of producing di- -naphthyl-p-phenylenedia-

mine.

SOURCE: Khimicheskaya promy#shlennost', no. 4, 1964, 272

TOPIC TAGS: dinaphthyl p phenylenediamine, production, process, purification

ABSTRACT: The proposed method for preparing di-b-naphthyl-p-phenylenediamine of higher purity than previously stained comprises: pouring a fine spray of a moltan reaction mass of b-naphthol and p-phenylenediamine into strongly agitated bot (1500) ethylene glycol to form a suspension of the product in ethylene glycol. The hot suspension is filtered, the precipitate washed with 1500 ethylene glycol and with hot water, centrifuged and dried at 100-1200. A 95% yield of di-a -naphthyl-p-phenylenediamine, melting 228-2290 is obtained. Orig. art. has: 1 equation.

ASSOCIATION: None

Cord 1/2

L 51427-65 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) Pc-4/Pr-4 RPL JW/PM

ACCESSION NR: AP5015487 UR/0286/65/000/008/002./0021

66.095.82

AUTHOR: Taranenko, A. S.; Glushkova, L. V.

TITLE: A method for producing N, N'-dinitroso-N, N'-diphenyl-n-phenylendiamin:

Class 12, No. 170064 10

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 21

TOPIC TAGS: diamine, hydrochloric acid, acetone, sodium nitrite

ABSTRACT: This Author's Certificate introduces a method for producing N,N'cinitroso-N,N'-diphenyl-n-phenylendiamine by treating N,N'-diphenyl-n-phenylendiamine with sodium nitrite in the presence of an acid. The quality of the product is improved by carrying out the process in the presence of hydrochloric acid and acetone.

ASSOCIATION: Nauchno-issledovatel'skiy institut khimikatov dlya polimernykh materialov (Scientific Research Institute of Chemicals for Polymer Materials)

SUBMITTED: 08Jun64

ENCL: 00

SUB CODE: Of, GC

Card 1/2

L 51427-65 ACCESSION NR: AP50154	87	0
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		c)

KOKHANOVA, I.V.; REDNIKOVA, T.A.; STARKOV, S.P.; YEGIDIS, F M; TARANENKO, A.S.; ZOLOTAREVA, K.A.

to the second description of the second seco

Ion-exchange resins as catalysts in organic synthesis. Part 2: Arylalkylation of n-cresol with styrene on KU-1 and KU-2 cation exchange resins. Zhur. org. khim. 1 no.4:648-649 Ap 165.

1. Nauchno-issledovatel skiy institut khimikatov dlya polimernych materialov i Tambovskiy gosudarstvennyy pedagogicheskiy institut.

LEBEDEV, Konstantin Borisovich; TARANENKO, B.I., otv. red.; PUSHKINA, L.I., red.; ZHUKOVA, N.D., red; ALFEROVA, P.F., tekhn. red.

[Production of calcium molybdate] Proizvodstvo molibdata kal\*-

[Production of calcium molybdate] Proizvodstvo molibdata kal'-tsiia. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 119 p.

(MIRA 15:5)

(Calcium molybdate)

THE COLUMN TO THE PROPERTY OF THE PROPERTY OF

BRISKMAN, A.M.; TARANENKO, D.S.

Problem of myocloms epilepsy. Zhur.nerv.i psikh. 59 no.7:833-835 (MIRA 12:11)

1. Mervologicheskoye otdeleniya (sav. A.M. Briskman) Cherkasskoy oblastnoy bol'nitsy (glavnyy wrach G.I. Ivakhno).

(RPILEPSY, case reports,

myoclonus epilepsy (Rus))

TARAMINKO, G. A.

25875. TARAMENKO, G. A. Fitatel'nost' tsel'nogo moloka pri kormlenii telyat myasnykh porod. Trudy Vsesoyuz. nauch.-issled. in-ta zhivotnovodstva, t. XVII, 1949, S. 93-106.—Bibliogr: 10 Nazv.

So. Letopis' Zhurnal'nykh Statey, Vol. 34, Poskva, 1949

USSR/Form Animals. Swine

Q-3

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35697

huther I Tarmenko G.A.

Inst : Not Givon

Title : The Utilization of Travertine in the Fattening of Figs (Ispol\*zeveniye travertinov pri otkorne podsvinkov)

Orig Pub : Tr. Kubansk. s.-kh. in-te, 1957, vyp. 3 (31), 169-174

Abstract : No abstract

Card : 1/1

37

TAKANEREC, c.i.; ECCION, To.i.; PUBLICANA, Ye.N.

Study of free radical processes in the tisture of it an article animals. Nameh. dokl. wys. checky; biol. nauki nc.1:20-26

\*(6. (MRA 19:1)

1. Pekemendovana kafedroy biofiziki Moskovskogo gurudarstvennogo universiteta. Submitted July 8, 1965.

KOZLOV, Yu.P.; TAMBIYEV, A.Kh.; TARANENKO, G.A.

Free-radical states of some antibiotics. Dokl. AN SSSE 154 no. 3:718-720 Ja \*64. (MTPA 17:5)

1. Moskovskiy gosudarstvennyy universited in. M.V. Lomonosova. Predstavleno akademikom V.A. Karginym.

L 28841-66 EWT (m) SOURCE CODE: UR/0325/66/000/001/c082/0036 ACC NR: AP6018652 (A.H) AUTHOR: Taranonko, G. A.; Kozlov, Yu. P.; Burlakova, Ye. V. 10 ORG: Dopartment of Biophysics, Moscow State University im, M. V. Lomonesov (Kafedra biofiziki Noskovskogo gosudarstvennogo universiteta) TITIE: Study of free radical processes in tissues of irradiated animals SOURCE: Nauchnyye doklady vysshey shkoly. Biologicheskiye nauki, no. 1, 1966, 82-86 TOPIC TAGS: free radical, copolymerization, mouse, radiation biologic effect, organic amide, radiation injury ABSTRACT: The method of inoculated copolymerization of acryl amid labelled with C14 was used to study the kinetics of free radical processes in certain tissues of animals exposed to radiction in doses of 600 and 1,500 r Three series of experiments were conducted with white mice. Acryl amide was administered: 1) 30 minutes before irradiation; 2) immediately after exposure; and 3) at various intervals after irradiation and four hours before decapitation. The degree of copolymerization of AA-Cl4 was determined by radiometric and historadicautographic methods. From the results of the experiment tissues of irradiated animals can be divided into three groups with respect to the churacter of free radical processes: tissues in which the concentration of . / free radicals did not differ from the norm (brain, blood crythrocytes, and Lard 1/2

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muscles), tisques in which it exceeded the norm (liver, kidneys, and blood placma), and tisques in which it was lower than the norm (spleen). The character of free radical processes is disrupted in various forms of radiation injury. In the post-radiation period (600 r.) regulation of free radical preactions is observed in a number of tisques. This is apparently associated with the development of restorative processes. No such regulation occurs with lethal doses on the order of 1,500 r.' Orig. art. has: 2 figures. [JPRS]

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#### TARANENKO, G. N.

X-ray observations on atypically progressing metastases of the bones. Vrach. delo no.6:34-36 Je \*62. (MIRA 15:7)

1. Diagnosticheskiy otdel (rukovoditel' - kand. med. nauk A. I. Pozmogov) Kiyevskogo nauchno-issledovatel'skogo rentgeno-radiolo-gicheskogo i onkologicheskogo instituta.

(BONES\_TUMORS) (BONES\_RADIOGRAPHY)

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Relay for pretection from single-phase short-circuits to ground in 6 kv. networks in open pit mines. From.energ. 19 no.7:36-38 J1 '64. (MIRA 18:1)

ALIKAYEV, V.A.; TARAMENKO, I.L., veterinarnyy vrach; NIKOLAYEV, P.Ya., veterinarnyy vrach; MIKHAYLETS, R.M., veterinarnyy vrach; ARTEMENKO, I.A., veterinarnyy fel'dsher; MOSKALENKO, A.N., veterinarnyy fel'dsher; AL'BERTYAN, M.P., veterinarnyy vrach; SKARBOVENKO, V.I., veterinarnyy vrach; MOROZOV, A.I., veterinarnyy fel'dsher; VESHCHEVAYLOV, V.T., veterinarnyy vrach; LUZHENKO, I.U., veterinarnyy fel'dsher; RUDOMETKIN, Ya.L., veterinarnyy vrach; PARSHUTKIN, I.M., veterinarnyy vrach; GOLOVANOVA, A.I., veterinarnyy vrach; SHIPILOVA, H.M., veterinarnyy vrach; SPIROV, V.D., veterinarnyy vrach; BONDARENKO, V.N., veterinarnyy vrach; KOVAL', P.K., veterinarnyy fel'dsher; ZHAMSUYEV, B.TS., veterinarnyy vrach; APALEV, Ye.M., veterinarnyy vrach; KOLOTIY, N.A., veterinarnyy vrach

Diseases of the young animal, their prevention and treatment; based on data received by the editors. Veterinaria 39 no.1:49-54 Ja 162. (MIMA 15:2)

1. Besedinskaya rayonnaya veterinarnaya lechebnitsa, Kurskoy oblasti (for Taranenko). 2. Bo'sho-Sosnovskaya rayonnaya lechebnita, Permskoy oblasti (for Nikolayev). 3. Aleksandrovskiy veterinarnyy uchastok, Voznesenskogo rayona, Nikolayevskoy oblasti, Ukrainskoy SSR (for Mikhaylets, Artemenko, Moskalenko). 4. Kolkhoz "40 let Oktyabrya", Tarliyskogo rayona, Moldavskoy SSR (for Al'bertyan).

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